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NOTICE OF ALLOWANCE AND FEE(S) DUE

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12/09/2010

MERCHANT & GOULD SCIENTIFIC ATLANTA, A CISCO COMPANY P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903 EXAMINER

MENDOZA, JUNIOR O

ART UNIT

PAPER NUMBER

2423 DATE MAILED: 12/09/2010

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,037	09/15/2003	Ajith N. Nair	0374.0007US01/CPOL968414	4 2530	

TITLE OF INVENTION: RESOURCE-ADAPTIVE MANAGEMENT OF VIDEO STORAGE

I	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
	nonprovisional	NO	\$1510	\$0	\$1510	\$1510	03/09/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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MINNEAPOLIS	S, MN 55402-0903								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CON	FIRMATION NO.
10/663,037	09/15/2003		Ajith N. Nair		60:	374.00	07US01/CPOL968414	1	2530
APPLN. TYPE	SMALL ENTITY	VE MANAGEMENT OI	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$0		\$1510		\$1510		03/09/2011
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MENDOZA	, JUNIOR O	2423	725-142000						
Change of corresponde FR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.	(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	ing on the patent front page, list the sof up to 3 registered patent attorneys of R, alternatively, the of a single firm (having as a member a auttorney or agent) and the names of up to dipatent attorneys or agents. If no name is ame will be printed.							
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a. The following fee(s): Issue Fee Publication Fee (N Advance Order - a	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 								
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/663,037	09/15/2003	Ajith N. Nair 60	60374.0007US01/CPOL968414 2530			
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MERCHANT &	GOULD	MENDOZA	, JUNIOR O			
	ANTA, A CISCO CO	ART UNIT	PAPER NUMBER			
P.O. BOX 2903 MINNEAPOLIS, I	MN 55402-0903		2423 DATE MAILED: 12/09/201	0		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 987 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 987 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
Notice of Allowability	10/663,037 Examiner	NAIR ET AL. Art Unit		
-	HINHOD O MENDOZA	0.400		
	JUNIOR O. MENDOZA	2423		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in the or other appropriate communi IGHTS. This application is sub-	nis application. If not included ication will be mailed in due cour	rse. THIS	
1. ☑ This communication is responsive to <u>10/21/2010</u> .				
2. X The allowed claim(s) is/are <u>1,2,5,7-9,12,17-19,21-25,41-47</u>	7,51-61 and 63-68.			
 3. Acknowledgment is made of a claim for foreign priority unerstanding a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 		(f).		
2. ☐ Certified copies of the priority documents have		No		
 Copies of the certified copies of the priority do 	• • •		from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the require	ements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			CE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	•			
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment or ir	the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the	
Attachment(s)	5 Notice of Info	rmal Datant Application		
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. ☐ Interview Sun	rmal Patent Application		
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No./M	ail Date mendment/Comment		
Paper No./Mail Date				
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		atement of Reasons for Allowan	ce	
	9. Other	1		
	/Andrew Y Koeni Supervisory Pate	g/ nt Examiner, Art Unit 2423		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 10/21/2010 has been entered.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 10/21/2010 was filed after the Notice of Allowance mailed on 08/16/2010. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

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Authorization for this examiner's amendment was given in a telephone interview with David Rodack on 06/25/2010.

4. The application has been amended as follows:

In **claim 23**, line 10, "sufficiency of processing resources." has been changed to -- sufficiency of processing resources;

further comprising a multiplexer, wherein the encoder is further configured to:

receive, in parallel to the plural digitized pictures, second plural digitized pictures of a second picture sequence and compressed pictures, the received pictures corresponding to a first format; and

further compress, in parallel to the plural digitized pictures of the picture sequence, the second plural digitized pictures of the second picture sequence to produce, in association with the multiplexer, a transport stream comprising a multiplex of the video stream and the compressed second plural digitized pictures, the transport stream pictures corresponding to a second format different than the first.--

Cancel claim 62.

In **claim 63**, line 1, "The STT of claim 62" has been changed to - - The STT of claim 23 - -.

In **claim 65**, line 1, "The STT of claim 62" has been changed to - - The STT of claim 23 - -.

In **claim 68**, line 1, "The STT of claim 62" has been changed to - - The STT of claim 23 - -.

Allowable Subject Matter

5. Claims 1, 2, 5, 7-9, 12, 17-19, 21-25, 41-47, 51-61 and 63-68 are allowed.

Regarding **claim 1**, the applicant's arguments filed on the appeal brief of 04/19/2010 are persuasive. Furthermore, the examiner notes that the multiplexing and demultiplexing scheme of Artigalas et al. (Pub No US 2001/0014206) is implemented by a magnetic recording head composed of a matrix which physically multiplexes data on the recording tape in parallel locations of the recording tape, which is different then parallel encoding and multiplexing video into a transport stream (i.e. MPEG-2).

The examiner examined IDS submitted on 10/21/2010 and notes that the multiplexing of commonly assigned application Nallur et al. (Pub No US 2005/0022245) takes place between the compressed audio and video content of the <u>same</u> video program, see paragraph [0041]. While paragraph [0042] does describe the compression and multiplexing of a plurality of videos in parallel, Nallur still fails to disclose or reasonably suggest "a multiplex of a corresponding first compressed video stream and

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a second compressed video stream, respectively". Since, Nallur only teaches that the audio and video content from the same program are multiplexed with each other, unlike the allowable feature of the current application which multiplexes two compressed video streams respectively.

Hence, prior art of record fails to show or reasonably suggest encoding in parallel plural digitized pictures of a first picture sequence corresponding to a first video stream of the plural received video streams and a second picture sequence corresponding to a second video stream of the plural received video streams to produce a transport stream comprising "a multiplex of a corresponding first compressed video stream and a second compressed video stream, respectively", the first and second video streams having the first format and the first and second compressed video streams having the second format, in combination with all the other limitations presented in claim 1. Therefore, independent claim 1 is allowable.

Regarding dependent claims 2, 5, 7-9, 12, 17-19, 21, 22 and 56 - 61, they are also held allowable since they depend from allowable claim 1.

Regarding **claim 23**, the applicant's arguments filed on the appeal brief of 04/19/2010 are persuasive. Furthermore, the examiner notes that the multiplexing and demultiplexing scheme of Artigalas et al. (Pub No US 2001/0014206) is implemented by a magnetic recording head composed of a matrix which physically multiplexes data on the recording tape in parallel locations of the recording tape, which is different then parallel encoding and multiplexing video into a transport stream (i.e. MPEG-2).

The examiner examined IDS submitted on 10/21/2010 and notes that the multiplexing of commonly assigned application Nallur et al. (Pub No US 2005/0022245) takes place between the compressed audio and video content of the same video program, see paragraph [0041]. While paragraph [0042] does describe the compression and multiplexing of a plurality of videos in parallel, Nallur still fails to disclose or reasonably suggest "a multiplex of a corresponding first compressed video stream and a second compressed video stream, respectively". Since, Nallur only teaches that the audio and video content from the same program are multiplexed with each other, unlike the allowable feature of the current application which multiplexes two compressed video streams respectively.

Hence, prior art of record fails to show or reasonably suggest a multiplexer, wherein the encoder is further configured to: receive, in parallel to the plural digitized pictures, second plural digitized pictures of a second picture sequence and compressed pictures, the received pictures corresponding to a first format; and further compress, in parallel to the plural digitized pictures of the picture sequence, the second plural digitized pictures of the second picture sequence, in association with the

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multiplexer, a transport stream comprising a multiplex of the video stream and the compressed second plural digitized pictures", the transport stream pictures corresponding to a second format different than the first, in combination with all the other limitations presented in claim 23. Therefore, independent claim 23 is allowable.

Regarding dependent claims 24, 25, 41-47, 51-55 and 63-68, they are also held allowable since they depend from allowable claim 23.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUNIOR O. MENDOZA whose telephone number is (571)270-3573. The examiner can normally be reached on Monday - Friday 9am - 5pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Koenig can be reached on (571)272-7296. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Junior O Mendoza Examiner Art Unit 2423

/J. O. M./ November 24, 2010

/Andrew Y Koenig/ Supervisory Patent Examiner, Art Unit 2423